

SEQUENCE LISTING

<110> Shionogi & Co., Ltd

<120> Drug for inhibiting myometrial contraction.

<130> S0043PCT

<140>

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<150> JP P1999-177548

<151> 1999-06-23

<150> JP P2000-79171

<151> 1999-03-21

<160> 6

<170> PatentIn Ver. 2.0

<210> 1

<211> 1457

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (165)..(719)

<220>

<221> mat peptide

<222> (447)..(602)

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cttggacatc ggagttttgc cattgccagt gggacgtctg agactttctc cttcaagttac 120

ttggcagatc actctcttag cagggctgc gcttcgcagc cgaa atg aag ctg gtt 176  
Met Lys Leu Val

tcc gtc gcc ctg atg tac ctg ggt tcg ctc gcc ttc cta ggc gct gac 224  
Ser Val Ala Leu Met Tyr Leu Gly Ser Leu Ala Phe Leu Gly Ala Asp  
-90 -85 -80 -75

acc gct cgg ttg gat gtc gcg tcg gag ttt cga aag aag tgg aat aag 272  
Thr Ala Arg Leu Asp Val Ala Ser Glu Phe Arg Lys Lys Trp Asn Lys  
-70 -65 -60

tgg gct ctg aat cgt ggg aag agg gaa ctg cgg atg tcc agc agc tac 320  
Trp Ala Leu Ser Arg Gly Lys Arg Glu Leu Arg Met Ser Ser Ser Tyr  
-55 -50 -45

ccc acc ggg ctc gct gac gtg aag gcc ggg cct gcc cag acc ctt att 368  
Pro Thr Gly Leu Ala Asp Val Lys Ala Gly Pro Ala Gln Thr Leu Ile  
-40 -35 -30

cgg ccc cag gac atg aag ggt gcc tct cga agc ccc gaa gac agc aat 416  
Arg Pro Gln Asp Met Lys Gly Ala Ser Arg Ser Pro Glu Asp Ser Ser  
-25 -20 -15

ccg gat gcc gcc cgc atc cga gtc aag cgc tac cgc cag agc atg aac 464  
Pro Asp Ala Ala Arg Ile Arg Val Lys Arg Tyr Arg Gln Ser Met Asn  
-10 -5 -1 1 5

aac ttc cag ggc ctc cgg agc ttt ggc tgc cgc ttc ggg acg tgc acg 512  
Asn Phe Gln Gly Leu Arg Ser Phe Gly Cys Arg Phe Gly Thr Cys Thr  
10 15 20

gtg cag aag ctg gca cac cag atc tac cag ttc aca gat aag gac aag 560  
Val Gln Lys Leu Ala His Gln Ile Tyr Gln Phe Thr Asp Lys Asp Lys  
25 30 35

gac aac gtc gcc ccc agg agc aag atc agc ccc cag ggc tac ggc cgc 608  
Asp Asn Val Ala Pro Arg Ser Lys Ile Ser Pro Gln Gly Tyr Gly Arg  
40 45 50

cgg cgc cgg cgc tcc ctg ccc gag gcc ggc ccg ggt cgg act ctg gtg 656  
 Arg Arg Arg Arg Ser Leu Pro Glu Ala Gly Pro Gly Arg Thr Leu Val  
 55 60 65 70

tct tct aag cca caa gca cac ggg gct cca gcc ccc ccg agt gga agt	704	
Ser Ser Lys Pro Gln Ala His Gly Ala Pro Ala Pro Pro Ser Gly Ser		
75	80	85

gct ccc cac ttt ctt taggatttag gcgcctatgg tacaaggaat agtcgcgcaa 759  
Ala Pro His Phe Leu  
90

gcatcccgct ggtgcctccc gggacgaagg acttcccgag cggtgtgggg accgggtct 819

gacagccctg cggagacct gagtccggga ggcaccgtcc ggcggcgagc tctggcttig 879

caaggggcccc tccttctggg ggcttcgctt ccttagccctt gctcagggtgc aagtgcggcca 939

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aaigaatgct gagacccccc gagcagggtt ctgagccaca gccgtgcicg cccacaaact 1059

gatitcicac ggccgigtac cccaccaggcgcaagcctc actattactt gaactttcca 1119

aaacctaag aggaaaagig caatgcgtgt tgcacataca gaggiaacta tcaatattt 1179

agtttgttgc tgtcaagatt tttttgtaa cttaaaat agatgtttt ttttacgtt 1239

tatattgtat taaggcatt taaaagcaa ttatattgtc ctccctatt ttaagacgtg 1299

aaatgttcacag cgaggtgtaa agtgttgcgc cgcggtggaaat gtgagtggtgt tttgtgtcat 1359

gaaagagaaa gactgattac cccctgtgtg gaagaaggaa acaccgagtc tcgtataat 1419

ctatttacat aaaatgggtg atatgcgaac agcaaacc 1457

<210> 2

<211> 185

<212> PRT

<213> Homo sapiens

<400> 2

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-90 -85 -80

Leu Gly Ala Asp Thr Ala Arg Leu Asp Val Ala Ser Glu Phe Arg Lys  
-75 -70 -65

Lys Trp Asn Lys Trp Ala Leu Ser Arg Gly Lys Arg Glu Leu Arg Met  
-60 -55 -50

Ser Ser Ser Tyr Pro Thr Gly Leu Ala Asp Val Lys Ala Gly Pro Ala  
-45 -40 -35

Gln Thr Leu Ile Arg Pro Gln Asp Met Lys Gly Ala Ser Arg Ser Pro  
-30 -25 -20 -15

Glu Asp Ser Ser Pro Asp Ala Ala Arg Ile Arg Val Lys Arg Tyr Arg  
-10 -5 -1 1

Gln Ser Met Asn Asn Phe Gln Gly Leu Arg Ser Phe Gly Cys Arg Phe  
5 10 15

Gly Thr Cys Thr Val Gln Lys Leu Ala His Gln Ile Tyr Gln Phe Thr  
20 25 30

Asp Lys Asp Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser Pro Gln

35

40

45

50

Gly Tyr Gly Arg Arg Arg Arg Arg Ser Leu Pro Glu Ala Gly Pro Gly

55

60

65

Arg Thr Leu Val Ser Ser Lys Pro Gln Ala His Gly Ala Pro Ala Pro

70

75

80

Pro Ser Gly Ser Ala Pro His Phe Leu

85

90

<210> 3

<211> 1493

<212> DNA

<213> Sus scrofa

<220>

<221> CDS

<222> (148)..(711)

<220>

<221> mat peptide

<222> (430)..(585)

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tgccACTGcc agAGGGACGT ctCAgACTtC atCTTCCAA atCTTGGCAG atCACCCCT 120

tagCAGGGtC tgcACATtC AGCCGGG atG aAG ctG gtt CCC GtA Gcc Ctc atG 174

Met Lys Leu Val Pro Val Ala Leu Met

-90

taC ctG gGC tcG ctC Gcc ttc ctG gGC gCT gAC aCA gCT CGG ctC gAC 222

Tyr Leu Gly Ser Leu Ala Phe Leu Gly Ala Asp Thr Ala Arg Leu Asp

-85                    -80                    -75                    -70

gtg gcg gca gag ttc cga aag aaa tgg aat aag tgg gct cta agt cgt    270  
Val Ala Ala Glu Phe Arg Lys Lys Trp Asn Lys Trp Ala Leu Ser Arg  
-65                    -60                    -55

gga aaa aga gaa ctt cgg ctg tcc agc agc tac ccc acc ggg atc gcc    318  
Gly Lys Arg Glu Leu Arg Leu Ser Ser Ser Tyr Pro Thr Gly Ile Ala  
-50                    -45                    -40

gac ttg aag gcc ggg cct gcc cag act gtc att cgg ccc cag gat gtg    366  
Asp Leu Lys Ala Gly Pro Ala Gln Thr Val Ile Arg Pro Gln Asp Val  
-35                    -30                    -25

aag ggc tcc tct cgc agc ccc cag gcc agc att ccg gat gca gcc cgc    414  
Lys Gly Ser Ser Arg Ser Pro Gln Ala Ser Ile Pro Asp Ala Ala Arg  
-20                    -15                    -10

atc cga gtc aag cgc tac cgc cag agt atg aac aac ttc cag ggc ctg    462  
Ile Arg Val Lys Arg Tyr Arg Gln Ser Met Asn Asn Phe Gln Gly Leu  
-5                    -1    1                    5                    10

cgg agc ttc ggc tgt cgc ttt ggg acg tgc acc gtg cag aag ctg gcg    510  
Arg Ser Phe Gly Cys Arg Phe Gly Thr Cys Thr Val Gln Lys Leu Ala  
15                    20                    25

cac cag atc tac cag ttc acg gac aaa gac aag gac ggc gtc gcc ccc    558  
His Gln Ile Tyr Gln Phe Thr Asp Lys Asp Asp Gly Val Ala Pro  
30                    35                    40

cgg agc aag atc agc ccc cag ggc tac ggc cgc cgg cgc cga cgc tct    606  
Arg Ser Lys Ile Ser Pro Gln Gly Tyr Gly Arg Arg Arg Arg Arg Ser  
45                    50                    55

ctg ccc gaa gcc agc ctg ggc cgg act ctg agg tcc cag gag cca cag    654  
Leu Pro Glu Ala Ser Leu Gly Arg Thr Leu Arg Ser Gln Glu Pro Gln

60

65

70

75

gcg cac ggg gcc ccg gcc tcc ccg gcg cat caa gtg ctc gcc act ctc 702  
Ala His Gly Ala Pro Ala Ser Pro Ala His Gln Val Leu Ala Thr Leu  
80 85 90

ttt agg att taggcgccta ctgigggcagc agcgaacagt cgcgcatgca 751  
Phe Arg Ile

tcatgccggc gcttcctggg gcggggggct tccccggagcc gagcccccta gcggctgggg 811

cccgggcaga gacagcattg agagaccgag agtccggag gcacagacca gcggcgagcc 871

ctgcatttc aggaaccgt cctgcatttga ggcagtttc tcttcggctt aatccagccc 931

gggtccccgg gggggggggg aggaggcaga ggaatccaaa ggagtgtcat ctgccaggct 991

cacggagagg agaaactgcg aagtaaatgc ttagacccccc aggggcaagg gtctgagcca 1051

ctgccgtgcc gcccacaaac tggatttca agggaaataa ccccaacagg ggcgaaggct 1111

cactattact tgaactttcc aaaacccataga gagggaaagt gcaatgtatg ttgtatataa 1171

agaggtaact atcaataattt aagttttgtt ctgtcaagat ttttttttgt aacttcaaat 1231

atagagatat ttttgtacgt tatataatgt attaaggca ttttaaaaca attgtatgt 1291

tcccccccc tctattttaa tattgtaaatg tctcagcgag gtgtacattt gtttgtcgc 1351

cggaaatgtga gagtgtgtgt gtgtgtgtc gtgaaagaga gtctggatgc ctcttgggaa 1411

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aaaccaataa actgtctcaa tg 1493

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<211> 188

<212> PRT

<213> Sus scrofa

<400> 4

Met Lys Leu Val Pro Val Ala Leu Met Tyr Leu Gly Ser Leu Ala Phe  
-90 -85 -80

Leu Gly Ala Asp Thr Ala Arg Leu Asp Val Ala Ala Glu Phe Arg Lys  
-75 -70 -65

Lys Trp Asn Lys Trp Ala Leu Ser Arg Gly Lys Arg Glu Leu Arg Leu  
-60 -55 -50

Ser Ser Ser Tyr Pro Thr Gly Ile Ala Asp Leu Lys Ala Gly Pro Ala  
-45 -40 -35

Gln Thr Val Ile Arg Pro Gln Asp Val Lys Gly Ser Ser Arg Ser Pro  
-30 -25 -20 -15

Gln Ala Ser Ile Pro Asp Ala Ala Arg Ile Arg Val Lys Arg Tyr Arg  
-10 -5 -1 1

Gln Ser Met Asn Asn Phe Gln Gly Leu Arg Ser Phe Gly Cys Arg Phe  
5 10 15

Gly Thr Cys Thr Val Gln Lys Leu Ala His Gln Ile Tyr Gln Phe Thr  
20 25 30

Asp Lys Asp Lys Asp Gly Val Ala Pro Arg Ser Lys Ile Ser Pro Gln  
35 40 45 50

Gly Tyr Gly Arg Arg Arg Arg Ser Leu Pro Glu Ala Ser Leu Gly  
55 60 65

Arg Thr Leu Arg Ser Gln Glu Pro Gln Ala His Gly Ala Pro Ala Ser  
70 75 80

Pro Ala His Gln Val Leu Ala Thr Leu Phe Arg Ile  
85 90

<210> 5  
<211> 1376  
<212> DNA  
<213> Rattus norvegicus

<220>  
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<222> (154)..(708)

<220>  
<221> mat peptide  
<222> (433)..(582)

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ccctttcagca gggtaatcgga gcaatcgctac aga atg aag ctg gtt tcc atc gcc 174  
Met Lys Leu Val Ser Ile Ala  
-90

ctg atg tta ttg ggt tcg ctc gcc gtt ctc ggc gcg gac acc gca cgg 222  
Leu Met Leu Leu Gly Ser Leu Ala Val Leu Gly Ala Asp Thr Ala Arg  
-85 -80 -75

ctc gac act tcc tcg cag ttc cga aag aag tgg aat aag tgg gcg cta 270  
Leu Asp Thr Ser Ser Gln Phe Arg Lys Lys Trp Asn Lys Trp Ala Leu  
-70 -65 -60 -55



agg tta taggtgcggg tggcagcait gaacagtcgg gcgagatatcc catggcgcc 758  
Arg Leu

tgcggaatca gagagcttcg caccctgagc ggactgagac aatcttgac agatctgcct 818

ggctggccct aggggaggca gaggaaccca agatcaagcc aggctcacgt cagaaaccga 878

gaattacagg ctgatactct ctccgggcag gggcttgagc cactgccttg cccgctcata 938

aactggtttt ctcacggggc atacggctca ttacttactt gaactttcca aaaccttagcg 998

aggaaaagtgcatacgccaaaggtaactatcatattaa gtttgttcat 1058

gtcaagaggt tttttttt gtaactcaa atatatagaa atattttgt acgttatata 1118

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gtgtgtgtgt gtgtgtgtaa ggtggagagc gcctgttac cgccgtgttga aaaaaaaaaa 1298

acattgtgtc ttctataatc tatttacata aaatatgtga tctggggaaaa agcaaaccaa 1358

taaactgtct caatgctg 1376

<210> 6

211 185

〈212〉 PRT

〈213〉 *Rattus norvegicus*

<400> 6

Met Lys Leu Val Ser Ile Ala Leu Met Leu Leu Gly Ser Leu Ala Val

-90

-85

-80

Leu Gly Ala Asp Thr Ala Arg Leu Asp Thr Ser Ser Gln Phe Arg Lys  
-75 -70 -65

Lys Trp Asn Lys Trp Ala Leu Ser Arg Gly Lys Arg Glu Leu Gln Ala  
-60 -55 -50

Ser Ser Ser Tyr Pro Thr Gly Leu Val Asp Glu Lys Thr Val Pro Thr  
-45 -40 -35 -30

Gln Thr Leu Gly Leu Gln Asp Lys Gln Ser Thr Ser Ser Thr Pro Gln  
-25 -20 -15

Ala Ser Thr Gln Ser Thr Ala His Ile Arg Val Lys Arg Tyr Arg Gln  
-10 -5 -1 1

Ser Met Asn Gln Gly Ser Arg Ser Thr Gly Cys Arg Phe Gly Thr Cys  
5 10 15

Thr Met Gln Lys Leu Ala His Gln Ile Tyr Gln Phe Thr Asp Lys Asp  
20 25 30 35

Lys Asp Gly Met Ala Pro Arg Asn Lys Ile Ser Pro Gln Gly Tyr Gly  
40 45 50

Arg Arg Arg Arg Ser Leu Pro Glu Val Leu Arg Ala Arg Thr Val  
55 60 65

Glu Ser Ser Gln Glu Gln Thr His Ser Ala Pro Ala Ser Pro Ala His  
70 75 80

Gln Asp Ile Ser Arg Val Ser Arg Leu  
85 90